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DESCRIPTORS: \*Microorganisms, \*Bacteria, Growth,  
Reproduction, Mathematical analysis, \*Culture media,  
Population, Control, \*Germ-free atmospheres.

The most important indices of growth of microbe cul-  
tures in stationary and circulating media were exam-  
ined and formulas were adduced for the calculation of  
the growth rate, the size of the biological mass of the  
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DESCRIPTORS: \*Tetracyclines, Antibiotics, \*Actinomycetes, Biosynthesis, Physiology.

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In a series of USSR regional investigations were carried out on the distribution of hydrocarbon oxidizing bacteria in subsoil horizons and waters with the goal of oil and gas prospection. Determined relationships in distribution of natural gases and microorganisms on the zone of deposits were found. Positive results of the (Earth Sciences--Geology, TT, v. 10, no. 12) (over)

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DESCRIPTORS: \*Petroleum, Anaerobiology, Micro-  
organisms, \*Pseudomonas, Biosynthesis, Hydro-  
carbons, Nitrogen, Sulfur, Metabolism, Biochemistry.

The effect of bacterial metabolism was investigated on  
the transformation of some components in paraffinic  
oils. Bacterial biocenoses were produced under  
anaerobic conditions on a mineral medium with  
petroleum. Stratum waters from several crude oil  
fields served for isolation of the biocenoses. Most of  
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DESCRIPTORS: Beryllium, Selenium, Tellurium, Scandium, Rubidium, \*Deposits, Minerals, Copper, Nickel, Ores, Geochemistry, \*Geology, Genetics, Sedimentation, Rare earths.

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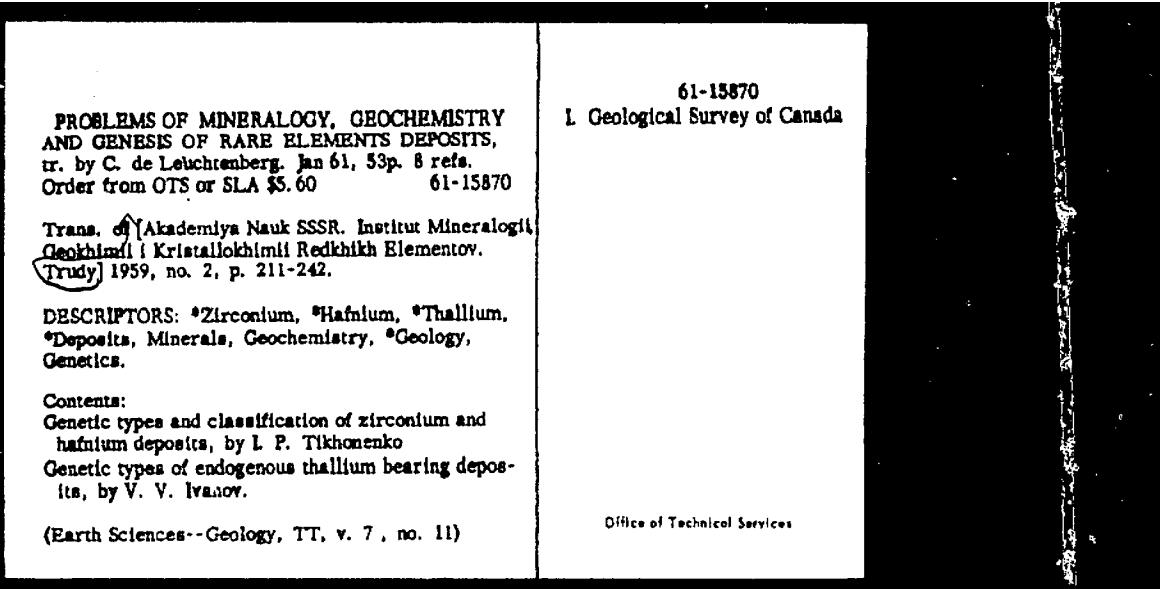
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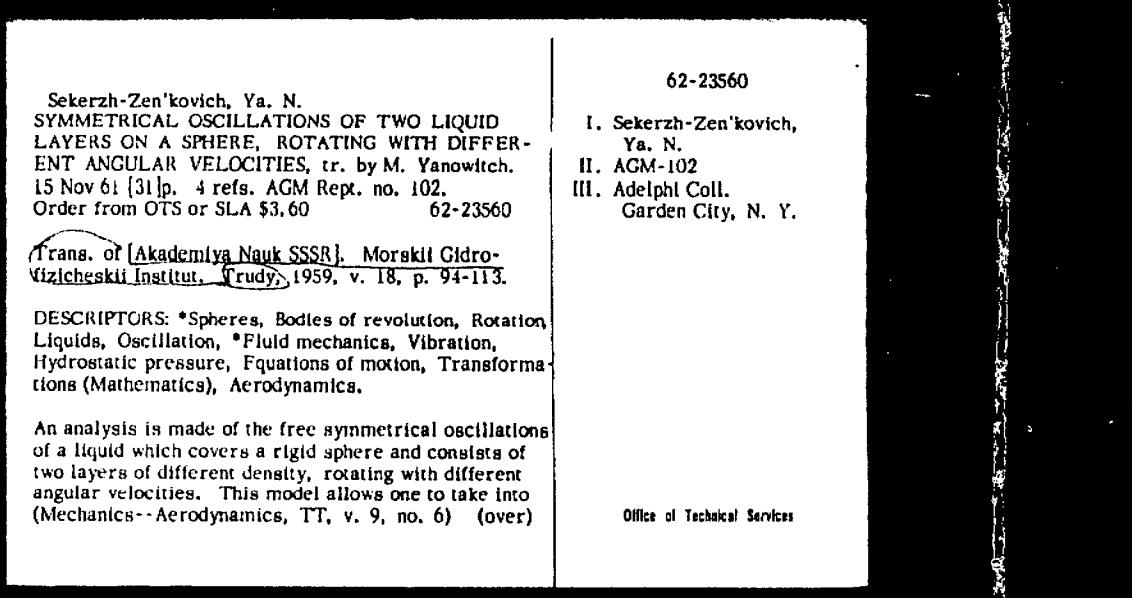
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